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Claim(s) as Classified Below

Abstract of the Disclosure

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

Total Pages in this Submission

Docket No.

389004/039

(Only for new nonprovisional applications under 37 CFR 1.53(b))

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled: A METHOD FOR ab initio DETERMINATION OF MACROMOLECULAR CRYSTALLOGRAPHIC PHASES AT MODERATE RESOLUTION BY A SYMMETRY-ENFORCED ORTHOGONAL MULTICENTER SPHERICAL HARMONIC-SPHERICAL BESSEL EXPANSION and invented by: Jonathan M. Friedman If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information: ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: Continuation Which is a: Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: ₩hich is a: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Enclosed are: **Application Elements** "[] ☒ Filing fee as calculated and transmitted as described below ::1 2. Specification having 52 pages plus cover pages and including the following: a. 🛛 Descriptive Title of the Invention Cross References to Related Applications (if applicable) b. ⊠ Statement Regarding Federally-sponsored Research/Development (if applicable) c. 🔲 Reference to Microfiche Appendix (if applicable) d. 🗆 e. 🛛 Background of the Invention f. 🗵 Brief Summary of the Invention Brief Description of the Drawings (if drawings filed) \boxtimes h. 🗵 **Detailed Description**

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 389004/039

Total Pages in this Submission

				Application Elements (Continued)					
	3.	×	Drav	Drawing(s) (when necessary as prescribed by 35 USC 113)					
		a.		Formal b. 🗵 Informal Number of Sheets7					
	4.	\boxtimes	Oath	th or Declaration					
		a.	\boxtimes	Newly executed (original or copy)					
		b.		Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)					
		c.	×	With Power of Attorney					
i din		d.		<u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).					
n n	5.		Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.						
79	6.		Com	mputer Program in Microfiche					
7	7.		Gen	netic Sequence Submission (if applicable, all must be included)					
ų U		a.		Paper Copy					
The stand short		b.		Computer Readable Copy					
ed ed		C.		Statement Verifying Identical Paper and Computer Readable Copy					
	Accompanying Application Parts								
	8.		Assi	signment Papers (cover sheet & documents)					
	9.		37 C	CFR 3.73(b) Statement (when there is an assignee)					
1	0.		English Translation Document (if applicable)						
1	1.		Information Disclosure Statement/PTO-1449 Copies of IDS Citations						
1	2.	×	Preliminary Amendment						
1	3.	×	Acknowledgment postcard						
1	4.	□ Certificate of Mailing							
				First Class Express Mail (Specify Label No.): EL 757871922 US					

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 389004/039

Total Pages in this Submission

	Accompanying Application Parts (Continued)
15.	Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.	Small Entity Statement(s) - Specify Number of Statements Submitted:
17.	Additional Enclosures (please identify below):
	Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)
18. D	Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.
Marie d'anni	Warning
	An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 389004/039

Total Pages in this Submission

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra		Rate	Fee
Total Claims	69	- 20 =	49	x	\$9.00	\$441.00
Indep. Claims	3	- 3 =	0	x	\$40.00	\$0.00
Multiple Dependen	\$0.00					
111					BASIC	F EE \$355.00
OTHER FEE (spec	\$0.00					
					TOTAL FILING	FEE \$796.00

A check in the amount of

to cover the filing fee is enclosed.

☑ The Commissioner is hereby authorized to charge and credit Deposit Account No. as described below. A duplicate copy of this sheet is enclosed.

19-4709

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☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance,

pursuant to 37 C.F.R. 1.311(b).

Dated: July 20, 2001

Signature

James J. DeCarlo Registration No. 36,120 Att rney for Applicant

STROOCK & STROOCK & LAVAN LLP

180 Maiden Lane

New York, New York 10038

Tel: (212) 806-5400

CC:

#31,94

CERTIFICATE OF	MAILINE Y "EXPRESS N	MAIL" (37 CFR 1.10)	Docket No.					
Applicant(s): J nathan			389004/039					
Serial No.	Filing Date	Examiner	Group Art Unit					
To be assigned	Concurrently Herewith							
PHASES AT	MODERATE RESOLUTION BY	ON OF MACROMOLECULAR CI Y A SYMMETRY-ENFORCED O -SPHERICAL BESSEL EXPANSI	RTHOGONAL					
I hereby certify that the	e following correspondence:							
Utility Patent Application Transmittal (Small Entity)(4 pgs) in duplicate; copy of specification, (52 pages plus cove Executed Combined Declaration and Power of Attorney (3 pgs.); Preliminary Amendment 7 sheets of informal drawings (Figs. 1-7) and acknowledgment postcard.								
L	(Identify type of correspondence)							
) .[] 7/20/	being deposited with the United States Postal Service "Express Mail Post Office to A 7 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, W							
100	Beatrice Cah (Typed or Printed Name of Person Mai							
And the state of t	Lase							
1		(Signature of Person Mailing Co	orrespondence)					
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APPLICATION OF

JONATHAN M. FRIEDMAN

FOR LETTERS PATENT OF THE UNITED STATES

A METHOD FOR ab initio DETERMINATION OF MACROMOLECULAR CRYSTALLOGRAPHIC PHASES AT MODERATE RESOLUTION BY A SYMMETRY-ENFORCED ORTHOGONAL MULTICENTER SPHERICAL HARMONIC-SPHERICAL BESSEL EXPANSION

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Our Docket No. 389004/039